

nCounter® Stem Cell Characterization Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
AAAS	NM_015665.5	achalasia, adrenocortical insufficiency, alacrimia (Allgrove, triple-A),achalasia, adrenocortical insufficiency, alacrimia	aladin WD repeat nucleoporin	
AASS	NM_005763.3		aminoadipate-semialdehyde synthase	
ACACA	NM_198834.1	ACAC,ACC;acetyl-Coenzyme A carboxylase alpha	acetyl-CoA carboxylase alpha	
ACAD8	NM_014384.2	acyl-Coenzyme A dehydrogenase family, member 8,acyl-CoA dehydrogenase family, member 8	acyl-CoA dehydrogenase family member 8	
ACADM	NM_000016.5	acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	acyl-CoA dehydrogenase medium chain	
ACBD6	NM_032360.2	acyl-Coenzyme A binding domain containing 6	acyl-CoA binding domain containing 6	
ACBD7	NM_001039844.2	acyl-Coenzyme A binding domain containing 7	acyl-CoA binding domain containing 7	
ACLY	NM_001096.2		ATP citrate lyase	
ACSL5	NM_016234.3	FACL5;fatty-acid-Coenzyme A ligase, long-chain 5	acyl-CoA synthetase long chain family member 5	
ACTL6A	NM_177989.2		actin like 6A	
ACVR1	NM_001105.2	ACVRLK2;activin A receptor, type I	activin A receptor type 1	
ADAM10	NM_001110.2	a disintegrin and metalloproteinase domain 10	ADAM metalloproteinase domain 10	
ADAM17	NM_003183.4	TACE;tumor necrosis factor, alpha, converting enzyme	ADAM metalloproteinase domain 17	
ADAM19	NM_023038.3	a disintegrin and metalloproteinase domain 19 (meltrin beta)	ADAM metalloproteinase domain 19	
ADD1	NM_001119.4	adducin 1 (alpha)	adducin 1	
ADH1C	NM_000669.3	ADH3	alcohol dehydrogenase 1C (class I), gamma polypeptide	
ADH4	NM_000670.4		alcohol dehydrogenase 4 (class II), pi polypeptide	
ADH5	NM_000671.3	FDH;formaldehyde dehydrogenase	alcohol dehydrogenase 5 (class III), chi polypeptide	
ADIPOR1	NM_015999.3		adiponectin receptor 1	
ADO	NM_032804.6	C10orf22;chromosome 10 open reading frame 22,2-aminoethanethiol (cysteamine) dioxigenase	2-aminoethanethiol dioxigenase	
AFP	NM_001134.1	HPAFP	alpha fetoprotein	
AGMAT	NM_024758.4	agmatine ureohydrolase (agmatinase)	agmatinase	
AKR1A1	NM_006066.2	aldo-keto reductase family 1, member A1 (aldehyde reductase)	aldo-keto reductase family 1 member A1	
AKT1	NM_001014432.1	v-akt murine thymoma viral oncogene homolog 1	AKT serine/threonine kinase 1	
AKT2	NM_001626.4	v-akt murine thymoma viral oncogene homolog 2	AKT serine/threonine kinase 2	
AKT3	NM_005465.4	v-akt murine thymoma viral oncogene homolog 3	AKT serine/threonine kinase 3	
ALDH7A1	NM_001202404.1	ATQ1;aldehyde dehydrogenase 7 family, member A1	aldehyde dehydrogenase 7 family member A1	
ALDH9A1	NM_000696.3	ALDH7,ALDH4,ALDH9;aldehyde dehydrogenase 9 family, member A1	aldehyde dehydrogenase 9 family member A1	
AMD1	NM_001634.4	S-adenosylmethionine decarboxylase 1	adenosylmethionine decarboxylase 1	
AMOT	NM_001113490.1		angiominin	
ANAPC1	NM_022662.2		anaphase promoting complex subunit 1	
ANAPC10	NM_014885.3		anaphase promoting complex subunit 10	
ANAPC7	NM_016238.2		anaphase promoting complex subunit 7	
APBB1P	NM_019043.3	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein	amyloid beta precursor protein binding family B member 1 interacting protein	
APEX1	NM_001641.2	APEX;APEX nuclease (multifunctional DNA repair enzyme),APEX nuclease (multifunctional DNA repair enzyme) 1	apurinic/apyrimidinic endodeoxyribonuclease 1	
APLN	NM_005161.4	AGTRL1;angiotensin II receptor-like 1	apelin receptor	
AQP8	NM_001169.3		aquaporin 8	
ARAF	NM_001654.3	ARAF1;v-raf murine sarcoma 3611 viral oncogene homolog 1	A-Raf proto-oncogene, serine/threonine kinase	
ARHGAP10	NM_024605.3		Rho GTPase activating protein 10	
ARHGEF9	NM_001173479.1	Cdc42 guanine nucleotide exchange factor (GEF) 9	Cdc42 guanine nucleotide exchange factor 9	
ARID5B	NM_032199.2	AT rich interactive domain 5B (MRF1-like)	AT-rich interaction domain 5B	
ARNTL	NM_001030272.1		aryl hydrocarbon receptor nuclear translocator like	
ASF1A	NM_014034.2	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)	anti-silencing function 1A histone chaperone	
ASMT	NM_001171039.1		acetylserotonin O-methyltransferase	
ATF2	NM_001880.2	CREB2;cAMP responsive element binding protein 2	activating transcription factor 2	
ATF3	NM_001674.2		activating transcription factor 3	
ATF4	NM_001675.2	TXREB;activating transcription factor 4 (tax-responsive enhancer element B67)	activating transcription factor 4	
ATL1	NM_015915.4	SPG3,SPG3A;spastic paraplegia 3A (autosomal dominant)	atlastin GTPase 1	
ATM	NM_000051.3	ATA,ATDC,ATC,ATD;ataxia telangiectasia mutated (includes complementation groups A, C and D),ataxia telangiectasia mutated	ATM serine/threonine kinase	
ATP6V1A	NM_001690.2	VPP2,ATP6A1,ATP6V1A1;ATPase, H+ transporting, lysosomal (vacuolar proton pump), alpha polypeptide, 70kD, isoform 1,ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A	ATPase H+ transporting V1 subunit A	
ATP6V1B2	NM_001693.3	VPP3,ATP6B2,ATPase, H+ transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2,ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 2,ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2	ATPase H+ transporting V1 subunit B2	
ATP6V1D	NM_015994.2	ATP6M;ATPase, H+ transporting, lysosomal (vacuolar proton pump),ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D	ATPase H+ transporting V1 subunit D	
ATP6V1F	NM_001198909.1	ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F	ATPase H+ transporting V1 subunit F	
ATP6V1G1	NM_004888.4	ATP6J,ATP6G1;ATPase, H+ transporting, lysosomal (vacuolar proton pump), member J,ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isoform 1,ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1	ATPase H+ transporting V1 subunit G1	
BAMBI	NM_012342.2	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)	BMP and activin membrane bound inhibitor	
BATF	NM_006399.3	basic leucine zipper transcription factor, ATF-like	basic leucine zipper ATF-like transcription factor	
BCAR1	NM_001170717.1	breast cancer anti-estrogen resistance 1,BCAR1, Cas family scaffolding protein,BCAR1, Cas family scaffold protein	BCAR1 scaffold protein, Cas family member	
BCAT2	NR_028451.1	BCT2;branched chain aminotransferase 2, mitochondrial	branched chain amino acid transaminase 2	
BCCIP	NM_016567.3	BRCA2 and CDKN1A-interacting protein	BRCA2 and CDKN1A interacting protein	
BCL2	NM_000657.2	B-cell CLL/lymphoma 2,BCL2, apoptosis regulator	BCL2 apoptosis regulator	
BCL2L1	NM_001191.2		BCL2 like 1	
BCL2L11	NM_138621.4	BCL2-like 11 (apoptosis facilitator)	BCL2 like 11	
BCL6	NM_001706.2	ZNF51;zinc finger protein 51,B cell CLL/lymphoma 6,BCL6, transcription repressor	BCL6 transcription repressor	
BECN1	NM_003766.2	beclin 1 (coiled-coil, moesin-like BCL2 interacting protein),beclin 1, autophagy related	beclin 1	
BMP4	NM_001202.3	BMP2B	bone morphogenetic protein 4	
BMP5	NM_021073.2		bone morphogenetic protein 5	
BMP7	NM_001719.1		bone morphogenetic protein 7	
BMPRI1A	NM_004329.2	ACVRLK3;bone morphogenetic protein receptor, type IA	bone morphogenetic protein receptor type 1A	
BMPRI2	NM_001204.5	PPH1;primary pulmonary hypertension 1,bone morphogenetic protein receptor, type II (serine/threonine kinase),bone morphogenetic protein receptor type II	bone morphogenetic protein receptor type 2	
BOC	NM_001301861.1	Boc homolog (mouse)	BOC cell adhesion associated, oncogene regulated	
BRD7	NM_001173984.2	bromodomain-containing 7	bromodomain containing 7	
BRF2	NM_018310.2	BRF2, subunit of RNA polymerase III transcription initiation factor, BRF1-like,BRF2, RNA polymerase III transcription initiation factor 50 kDa subunit	BRF2 RNA polymerase III transcription initiation factor subunit	
BUB1	NM_004336.3	BUB1L;budding uninhibited by benzimidazoles 1 (yeast homolog),budding uninhibited by benzimidazoles 1 homolog (yeast)	BUB1 mitotic checkpoint serine/threonine kinase	
BUB1B	NM_001211.4	budding uninhibited by benzimidazoles 1 (yeast homolog), beta,budding uninhibited by benzimidazoles 1 homolog (yeast)	BUB1 mitotic checkpoint serine/threonine kinase B	

BUB3	NM_004725.3	BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog,budding uninhibited by benzimidazoles 3 homolog (yeast)	BUB3 mitotic checkpoint protein
CAB39	NM_001130849.1		calcium binding protein 39
CACNA2D2	NM_001005505.1	calcium channel, voltage-dependent, alpha 2/delta subunit 2	calcium voltage-gated channel auxiliary subunit alpha2delta 2
CACYBP	NM_014412.2		calyculin binding protein
CADM1	NM_001098517.1	TSLC1,IGSF4;tumor suppressor in lung cancer 1,immunoglobulin superfamily, member 4	cell adhesion molecule 1
CAMK1	NM_003656.3		calcium/calmodulin dependent protein kinase I
CAP2	NM_006366.2	CAP, adenylate cyclase-associated protein, 2 (yeast)	cyclase associated actin cytoskeleton regulatory protein 2
CAPZB	NM_001206540.2	capping protein (actin filament) muscle Z-line, beta,capping actin protein of muscle Z-line beta subunit	capping actin protein of muscle Z-line subunit beta
CASP3	NM_032991.2	caspase 3, apoptosis-related cysteine protease,caspase 3, apoptosis-related cysteine peptidase	caspase 3
CASP9	XM_011542270.1	caspase 9, apoptosis-related cysteine protease,caspase 9, apoptosis-related cysteine peptidase	caspase 9
CAV1	NM_001753.3	CAV;caveolin 1, caveolae protein, 22kD,caveolin 1, caveolae protein, 22kDa	caveolin 1
CBR4	NM_032783.4		carbonyl reductase 4
CBX4	NM_003655.2	chromobox homolog 4 (Drosophila Pc class),chromobox homolog 4	chromobox 4
CBX6	NM_014292.3	chromobox homolog 6	chromobox 6
CCDC130	NM_030818.2	YJU2B	coiled-coil domain containing 130
CCDC88C	NM_001080414.3	KIAA1509;KIAA1509	coiled-coil domain containing 88C
CCNA2	NM_001237.2	CCNA,CCN1	cyclin A2
CCNB1	NM_031966.3	CCNB	cyclin B1
CCNB2	NM_004701.2		cyclin B2
CCNC	NM_005190.3		cyclin C
CCR7	NM_001838.3	CMKBR7,EBI1;chemokine (C-C motif) receptor 7	C-C motif chemokine receptor 7
CCS	NM_005125.1		copper chaperone for superoxide dismutase
CD2	NM_001767.3	SRBC:CD2 antigen (p50), sheep red blood cell receptor	CD2 molecule
CD274	NM_014143.3	PDCD1LG1;programmed cell death 1 ligand 1,CD274 antigen	CD274 molecule
CD34	NM_001025109.1	CD34 antigen	CD34 molecule
CD44	NM_001001392.1	MIC4,MDU2,MDU3;CD44 antigen (homing function and Indian blood group system)	CD44 molecule (Indian blood group)
CDC16	NM_003903.3	CDC16 (cell division cycle 16, S. cerevisiae, homolog),CDC16 cell division cycle 16 homolog (S. cerevisiae),cell division cycle 16 homolog (S. cerevisiae)	cell division cycle 16
CDC20	NM_001255.2	CDC20 (cell division cycle 20, S. cerevisiae, homolog),CDC20 cell division cycle 20 homolog (S. cerevisiae),cell division cycle 20 homolog (S. cerevisiae)	cell division cycle 20
CDC25A	NM_001789.2		cell division cycle 25A
CDC6	NM_001254.3	CDC18L;CDC6 (cell division cycle 6, S. cerevisiae) homolog,CDC6 cell division cycle 6 homolog (S. cerevisiae),cell division cycle 6 homolog (S. cerevisiae)	cell division cycle 6
CDH1	NM_004360.2	UVO;cadherin 1, type 1, E-cadherin (epithelial)	cadherin 1
CDH11	NM_001797.2	cadherin 11, type 2, OB-cadherin (osteoblast)	cadherin 11
CDH2	NM_001792.3	NCAD;cadherin 2, type 1, N-cadherin (neuronal)	cadherin 2
CDK5	NM_004935.2		cyclin dependent kinase 5
CDK7	NM_001799.2	cyclin-dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase),cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase)	cyclin dependent kinase 7
CDK8	NM_001260.1		cyclin dependent kinase 8
CDKN1B	NM_004064.3	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	cyclin dependent kinase inhibitor 1B
CDON	NM_001243597.1	Cdon homolog (mouse)	cell adhesion associated, oncogene regulated
CDX2	NM_001265.4	CDX3;caudal type homeo box transcription factor 2	caudal type homeobox 2
CEBPB	NM_005194.4	TCF5;CCAAT/enhancer binding protein (C/EBP), beta,CCAAT/enhancer binding protein beta	CCAAT enhancer binding protein beta
CER1	NM_005454.2	cerberus 1 (Xenopus laevis) homolog (cysteine knot superfamily),cerberus 1, cysteine knot superfamily, homolog (Xenopus laevis)	cerberus 1, DAN family BMP antagonist
CHD3	NM_001005271.2		chromodomain helicase DNA binding protein 3
CHEK1	NM_001114122.2	CHK1 (checkpoint, S.pombe) homolog,CHK1 checkpoint homolog (S. pombe)	checkpoint kinase 1
CHEK2	NM_001005735.1	RAD53;CHK2 (checkpoint, S.pombe) homolog,CHK2 checkpoint homolog (S. pombe)	checkpoint kinase 2
CHMP2B	NM_014043.3	chromatin modifying protein 2B	charged multivesicular body protein 2B
CHMP4A	NM_014169.2	C14orf123;chromosome 14 open reading frame 123,chromatin modifying protein 4A	charged multivesicular body protein 4A
CHORDC1	NM_012124.2	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1	cysteine and histidine rich domain containing 1
CHUK	NM_001320928.1	TCF16;conserved helix-loop-helix ubiquitous kinase	component of inhibitor of nuclear factor kappa B kinase complex
CIR1	NM_004882.3	corepressor interacting with RBP1, 1,CBF1 (RBP1) interacting corepressor 1	corepressor interacting with RBP1, CIR1
CKB	NM_001823.4	CKB;creatine kinase, brain	creatine kinase B
CKMT1A/B	NM_001015001.1	CKMT;CKMT1;creatine kinase, mitochondrial 1 (ubiquitous)	creatine kinase, mitochondrial 1B
CNTFR	NM_147164.1		ciliary neurotrophic factor receptor
COL1A1	NM_000088.3	collagen, type I, alpha 1	collagen type I alpha 1 chain
COL1A2	NM_000089.3	Oi4;osteogenesis imperfecta type IV,collagen, type I, alpha 2,collagen type I alpha 2	collagen type I alpha 2 chain
COL3A1	NM_000090.3	EDS4A;Ehlers-Danlos syndrome type IV, autosomal dominant,collagen, type III, alpha 1	collagen type III alpha 1 chain
COL4A2	NM_001846.2	collagen type IV alpha 2	collagen type IV alpha 2 chain
COL5A1	NM_000093.3	collagen type V alpha 1	collagen type V alpha 1 chain
COL5A2	NM_000393.3	collagen, type V, alpha 2	collagen type V alpha 2 chain
COL6A3	NM_004369.3	collagen, type VI, alpha 3	collagen type VI alpha 3 chain
CORO1B	NM_020441.2	coronin, actin-binding protein, 1B	coronin 1B
CPEB2	NM_001177381.1		cytoplasmic polyadenylation element binding protein 2
CPT1A	NM_001031847.2	CPT1;carnitine palmitoyltransferase 1A (liver)	carnitine palmitoyltransferase 1A
CPT2	NM_000098.2	CPT1;carnitine palmitoyltransferase II	carnitine palmitoyltransferase 2
CREBBP	NM_004380.2	RSTS;Rubinstein-Taybi syndrome	CREB binding protein
CRK	NM_016823.4	v-crk avian sarcoma virus CT10 oncogene homolog	CRK proto-oncogene, adaptor protein
CRKL	NM_005207.4	v-crk avian sarcoma virus CT10 oncogene homolog-like	CRK like proto-oncogene, adaptor protein
CRYAB	NM_001885.1	CRYA2;crystallin, alpha B	crystallin alpha B
CSF1	NM_000757.4	colony stimulating factor 1 (macrophage)	colony stimulating factor 1
CSK	NM_004383.1	c-src tyrosine kinase,CSK, non-receptor tyrosine kinase	C-terminal Src kinase
CSNK1A1	NM_001025105.1	casein kinase 1, alpha 1	casein kinase 1 alpha 1
CSNK1G3	NM_001031812.1	casein kinase 1, gamma 3	casein kinase 1 gamma 3
CSNK2A2	NM_001896.2	casein kinase 2, alpha prime polypeptide	casein kinase 2 alpha 2
CSNK2B	NM_001320.5	casein kinase 2, beta polypeptide	casein kinase 2 beta
CTBP1	NM_001328.2		C-terminal binding protein 1
CTCF	NM_001191022.1	CCCTC-binding factor (zinc finger protein)	CCCTC-binding factor
CTNNA1	NM_001903.2	catenin (cadherin-associated protein), alpha 1 (102kD)	catenin alpha 1
CTNNB1	NM_001098210.1	CTNNB;catenin (cadherin-associated protein), beta 1 (88kD),catenin (cadherin-associated protein), beta 1, 88kDa,catenin (cadherin-associated protein), beta 1	catenin beta 1
CTNND1	NM_001206889.1	CTNND;catenin (cadherin-associated protein), delta 1	catenin delta 1
CTNND2	NM_001332.2	catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),catenin (cadherin-associated protein), delta 2	catenin delta 2
CUL1	NM_003592.2		cullin 1
DAB2	NM_001343.2	disabled (Drosophila) homolog 2 (mitogen-responsive phosphoprotein),disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila),Dab, mitogen-responsive phosphoprotein, homolog 2 (Drosophila),DAB2, clathrin adaptor protein	DAB adaptor protein 2
DCN	NM_001920.3		decorin
DDIT3	NM_001195054.1	DNA-damage-inducible transcript 3	DNA damage inducible transcript 3
DGKK	NM_001013742.2		diacylglycerol kinase kappa
DIABLO	NM_138930.3	diablo, IAP-binding mitochondrial protein	diablo IAP-binding mitochondrial protein
DKK1	NM_012242.2	dickkopf (Xenopus laevis) homolog 1,dickkopf 1 homolog (Xenopus laevis)	dickkopf WNT signaling pathway inhibitor 1

DLD	NM_000108.3	LAD,GCSL;dihydroipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex)	dihydroipoamide dehydrogenase	
DLG3	NM_021120.2	discs, large homolog 3 (neuroendocrine-dlg, Drosophila),discs, large homolog 3 (Drosophila),discs large homolog 3	discs large MAGUK scaffold protein 3	
DLK1	NM_001317172.1	delta-like homolog (Drosophila),delta-like 1 homolog (Drosophila)	delta like non-canonical Notch ligand 1	
DLL1	NM_005618.3	delta (Drosophila)-like 1,delta-like 1 (Drosophila)	delta like canonical Notch ligand 1	
DLX5	NM_005221.5	distal-less homeo box 5	distal-less homeobox 5	
DMD	NM_004014.2	MRX85;dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272,mental retardation, X-linked 85	dystrophin	
DNMT1	NM_001379.2	DNMT;DNA (cytosine-5-)-methyltransferase 1	DNA methyltransferase 1	sub-maximal isoform coverage due to non-overlapping transcript variants
DNMT3A	NM_022552.4	DNA (cytosine-5-)-methyltransferase 3 alpha	DNA methyltransferase 3 alpha	
DNMT3B	NM_175850.1	DNA (cytosine-5-)-methyltransferase 3 beta	DNA methyltransferase 3 beta	
DNMT3L	NM_013369.2	DNA (cytosine-5-)-methyltransferase 3-like	DNA methyltransferase 3 like	
DPPA3	NM_199286.4		developmental pluripotency associated 3	
DPPA4	NM_018189.3		developmental pluripotency associated 4	
DPPA5	NM_001025290.1		developmental pluripotency associated 5	
DUSP6	NM_022652.2		dual specificity phosphatase 6	
DUSP7	NM_001947.2		dual specificity phosphatase 7	
DVL2	NM_004422.2	dishevelled 2 (homologous to Drosophila dsh),dishevelled, dsh homolog 2 (Drosophila)	dishevelled segment polarity protein 2	
DVL3	NM_004423.3	dishevelled 3 (homologous to Drosophila dsh),dishevelled, dsh homolog 3 (Drosophila)	dishevelled segment polarity protein 3	
DYNL1H1	NM_001376.4	DNECL,DNCL,DNCH1;dynein, cytoplasmic, heavy polypeptide 1	dynein cytoplasmic 1 heavy chain 1	
DYNLL1	NM_003746.2	DNCL1;dynein, cytoplasmic, light polypeptide 1	dynein light chain LC8-type 1	
DYNLL2	NM_080677.2		dynein light chain LC8-type 2	
E2F4	NM_001950.3	E2F transcription factor 4, p107/p130-binding	E2F transcription factor 4	
E2F5	NM_001083588.1	E2F transcription factor 5, p130-binding	E2F transcription factor 5	
ECI1	NM_001919.3	DCI;dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase),dodecenoyl-CoA isomerase	enoyl-CoA delta isomerase 1	
EEF1A1	NM_001402.6	EF1A,EEF1A,LENG7;leukocyte receptor cluster (LRC) member 7	eukaryotic translation elongation factor 1 alpha 1	
EFNA1	NM_182685.1	TNFAIP4,EPLG1;ephrin-A1	ephrin A1	
EGLN1	NM_022051.2	C1orf12;EGL nine (C.elegans) homolog 1,egl nine homolog 1 (C. elegans),egl-9 family hypoxia-inducible factor 1	egl-9 family hypoxia inducible factor 1	
EGLN2	NM_053046.3	egl nine homolog 2 (C. elegans)	egl-9 family hypoxia inducible factor 2	
EHBP1L1	NM_001099409.1		EH domain binding protein 1 like 1	
EHMT1	NM_024757.5	EHMT1-IT1;euchromatic histone methyltransferase 1,EHMT1 intronic transcript 1	euchromatic histone lysine methyltransferase 1	
EHMT2	NM_025256.5	C6orf30,BAT8;chromosome 6 open reading frame 30,HLA-B associated transcript 8	euchromatic histone lysine methyltransferase 2	
EIF2S1	NM_004094.4	EIF2;eukaryotic translation initiation factor 2, subunit 1 (alpha, 35kD),eukaryotic translation initiation factor 2, subunit alpha	eukaryotic translation initiation factor 2 subunit alpha	
EIF4E	NM_001130678.1	EIF4E1,EIF4F	eukaryotic translation initiation factor 4E	
EIF4E2	NM_004846.3	EIF4E1.3;eukaryotic translation initiation factor 4E-like 3	eukaryotic translation initiation factor 4E family member 2	
EIF4G1	NM_004953.3	EIF4G,EIF4F;eukaryotic translation initiation factor 4 gamma, 1	eukaryotic translation initiation factor 4 gamma 1	
ELOVL1	NM_022821.2	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1	ELOVL fatty acid elongase 1	
ELOVL5	NM_001242828.1	SCA38,ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast),spinocerebellar ataxia 38	ELOVL fatty acid elongase 5	
ELOVL6	NM_001130721.1	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	ELOVL fatty acid elongase 6	
ENAH	NM_001008493.1	enabled homolog (Drosophila)	ENAH actin regulator	
ENO2	NM_001975.2	enolase 2 (gamma, neuronal)	enolase 2	
ENOPH1	NM_021204.4		enolase-phosphatase 1	
EOMES	NM_005442.2	eomesodermin (Xenopus laevis) homolog	eomesodermin	
EP300	NM_001429.2		E1A binding protein p300	
EPAS1	NM_001430.4		endothelial PAS domain protein 1	
EPB41L5	NM_001184939.1		erythrocyte membrane protein band 4.1 like 5	
EPCAM	NM_002354.2	M4S1,MIC18,TACSTD1;antigen identified by monoclonal antibody AUA1,tumor-associated calcium signal transducer 1	epithelial cell adhesion molecule	
ERCC3	NM_000122.1	excision repair cross-complementing rodent repair deficiency, complementation group 3,excision repair cross-complementation group 3	ERCC excision repair 3, TFIIH core complex	
ESRRB	NM_004452.3	ESRL2,DFNB35;deafness, autosomal recessive 35	estrogen related receptor beta	
ETS1	NM_005238.3	EWSR2;y-ets avian erythroblastosis virus E26 oncogene homolog 1	ETS proto-oncogene 1, transcription factor	
EXT1	NM_000127.2	LGCR,LGS;Langer-Giedion syndrome chromosome region,exostosins (multiple) 1,exostosin 1	exostosin glycosyltransferase 1	
F11R	NM_016946.5	JAM1;junctional adhesion molecule 1	F11 receptor	
FBN2	NM_001999.3	CCA;congenital contractural arachnodactyly	fibrillin 2	
FBXO5	NM_012177.3	F-box only protein 5	F-box protein 5	
FBXW11	NM_033644.2	FBXW1B;F-box and WD-40 domain protein 1B,F-box and WD-40 domain protein 11	F-box and WD repeat domain containing 11	sub-maximal isoform coverage due to non-overlapping transcript variants
FER	NM_005246.1	fer (fps/fes related) tyrosine kinase	FER tyrosine kinase	
FGA	NM_021871.2	fibrinogen, A alpha polypeptide	fibrinogen alpha chain	
FGB	NM_005141.5	fibrinogen, B beta polypeptide	fibrinogen beta chain	
FGF2	NM_002006.4	FGFB;fibroblast growth factor 2 (basic)	fibroblast growth factor 2	
FGF4	NM_002007.2	HSTF1;heparin secretory transforming protein 1	fibroblast growth factor 4	
FGF7	NM_002009.3	fibroblast growth factor 7 (keratinocyte growth factor)	fibroblast growth factor 7	
FGFR2	NM_000141.4	KGFR,BEK,CFD1,JWS;bacteria-expressed kinase,keratinocyte growth factor receptor,craniofacial dysostosis 1,Jackson-Weiss syndrome	fibroblast growth factor receptor 2	
FGG	NM_000509.4	fibrinogen, gamma polypeptide	fibrinogen gamma chain	
FKBP6	NM_001135211.1	FK506-binding protein 6 (36kD),FK506 binding protein 6, 36kDa	FKBP prolyl isomerase family member 6 (inactive)	
FLII	NM_002018.2	flightless I (Drosophila) homolog,flightless I homolog (Drosophila),flightless I actin binding protein	FLII actin remodeling protein	
FLNB	NM_001164317.1	FLN1L,LRSL1,filamin B, beta (actin binding protein 278),Larsen syndrome 1 (autosomal dominant),filamin B, beta	filamin B	
FLNC	NM_001127487.1	FLN2,filamin C, gamma (actin binding protein 280),filamin C, gamma	filamin C	
FMOD	NM_002023.4		fibromodulin	
FN1	NM_212482.1		fibronectin 1	
FNTA	NM_002027.2		farnesyltransferase, CAAX box, alpha	
FOS	NM_005252.3	v-fos FBJ murine osteosarcoma viral oncogene homolog,FBJ murine osteosarcoma viral oncogene homolog	Fos proto-oncogene, AP-1 transcription factor subunit	
FOSB	NM_006732.2	FBJ murine osteosarcoma viral oncogene homolog B	FosB proto-oncogene, AP-1 transcription factor subunit	
FOSL2	NM_005253.3	FOS like antigen 2	FOS like 2, AP-1 transcription factor subunit	
FOXA1	NM_004496.3	HNF3A;hepatocyte nuclear factor 3, alpha	forkhead box A1	
FOXA2	NM_021784.4	HNF3B;hepatocyte nuclear factor 3, beta	forkhead box A2	
FOXD3	NM_012183.2		forkhead box D3	
FOXF1	NM_001451.2	FKHL5	forkhead box F1	
FYN	NM_002037.3	FYN oncogene related to SRC, FGR, YES	FYN proto-oncogene, Src family tyrosine kinase	
FZD1	NM_003505.1	frizzled (Drosophila) homolog 1,frizzled homolog 1 (Drosophila),frizzled 1, seven transmembrane spanning receptor,frizzled family receptor 1	frizzled class receptor 1	
FZD4	NM_012193.3	EVR1;frizzled (Drosophila) homolog 4,exudative vitreoretinopathy 1,frizzled homolog 4 (Drosophila),frizzled 4, seven transmembrane spanning receptor,frizzled family receptor 4	frizzled class receptor 4	

FZD7	NM_003507.1	frizzled (Drosophila) homolog 7,frizzled homolog 7 (Drosophila),frizzled 7, seven transmembrane spanning receptor,frizzled family receptor 7	frizzled class receptor 7	
FZD9	NM_003508.2	frizzled (Drosophila) homolog 9,frizzled homolog 9 (Drosophila),frizzled 9, seven transmembrane spanning receptor,frizzled family receptor 9	frizzled class receptor 9	
FZR1	NM_001136197.1	fizzy/cell division cycle 20 related 1 (Drosophila),fizzy/cell division cycle 20 related 1	fizzy and cell division cycle 20 related 1	
G6PC3	NM_138387.3	glucose 6 phosphatase, catalytic, 3	glucose-6-phosphatase catalytic subunit 3	
G6PD	NM_000402.2		glucose-6-phosphate dehydrogenase	
GABARAP	NM_007278.1	GABA(A) receptor-associated protein	GABA type A receptor-associated protein	
GABARAPL2	NM_007285.6	GABA(A) receptor-associated protein like 2	GABA type A receptor associated protein like 2	
GADD45A	NM_001199741.1	DDIT1;growth arrest and DNA-damage-inducible, alpha	growth arrest and DNA damage inducible alpha	
GAS1	NM_002048.2		growth arrest specific 1	
GATA3	NM_001002295.1	GATA-binding protein 3	GATA binding protein 3	
GATA4	NM_002052.5	GATA-binding protein 4	GATA binding protein 4	
GATA6	NM_005257.3	GATA-binding protein 6	GATA binding protein 6	
GBX2	NM_001485.2	gastrulation brain homeo box 2	gastrulation brain homeobox 2	
GCAT	NM_001171690.1	glycine C-acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase)	glycine C-acetyltransferase	
GCDH	NM_000159.2	glutaryl-Coenzyme A dehydrogenase	glutaryl-CoA dehydrogenase	
GCM1	NM_003643.3	GCMA;glial cells missing (Drosophila) homolog a,glial cells missing homolog 1 (Drosophila)	glial cells missing transcription factor 1	
GDF3	NM_020634.1		growth differentiation factor 3	
GDF6	NM_001001557.3	SGM1;segmentation syndrome 1	growth differentiation factor 6	
GFAP	NM_002055.4		glial fibrillary acidic protein	
GIT1	NM_014030.3	G protein-coupled receptor kinase interactor 1,G protein-coupled receptor kinase interacting ArfGAP 1	GIT ArfGAP 1	
GJA1	NM_000165.3	ODDD,GJAL;gap junction protein, alpha-like,gap junction protein, alpha 1, 43kDa (connexin 43),gap junction protein, alpha 1, 43kDa	gap junction protein alpha 1	
GLI3	NM_000168.5	GCPS,PHS;Greig cephalopolysyndactyly syndrome,GLI-Kruppel family member GLI3,glioma-associated oncogene family zinc finger 3	GLI family zinc finger 3	
GLS	NM_014905.3		glutaminase	
GLS2	NM_013267.2	glutaminase 2 (liver, mitochondrial)	glutaminase 2	
GLUD1/2	NM_012084.3	GLUDP1;glutamate dehydrogenase pseudogene 1	glutamate dehydrogenase 2	
GLUL	NM_002065.6	GLNS;glutamate-ammonia ligase (glutamine synthase)	glutamate-ammonia ligase	
GNA12	NM_001282440.1	guanine nucleotide binding protein (G protein) alpha 12	G protein subunit alpha 12	
GNB1	NM_001282539.1	guanine nucleotide binding protein (G protein), beta polypeptide 1	G protein subunit beta 1	
GNB2	NM_005273.3	guanine nucleotide binding protein (G protein), beta polypeptide 2	G protein subunit beta 2	
GNMT	NM_018960.4	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2),glutamic-oxaloacetic transaminase 2, mitochondrial	glycine N-methyltransferase	
GOT2	NM_002080.3		glutamic-oxaloacetic transaminase 2	
GRAMD1B	NM_020716.1	LINC01059;long intergenic non-protein coding RNA 1059	GRAM domain containing 1B	
GRB10	NM_001001549.2	growth factor receptor-bound protein 10	growth factor receptor bound protein 10	
GRB2	NM_002086.4	growth factor receptor-bound protein 2	growth factor receptor bound protein 2	
GSC	NM_173849.3		goosecoid homeobox	
GSK3A	NM_019884.2		glycogen synthase kinase 3 alpha	
GSTZ1	NM_145871.2	glutathione transferase zeta 1	glutathione S-transferase zeta 1	
HAND1	NM_004821.3		heart and neural crest derivatives expressed 1	
HAND2	NM_021973.2		heart and neural crest derivatives expressed 2	
HDAC1	NM_004964.2	RPD3L1	histone deacetylase 1	
HDAC10	NM_032019.5		histone deacetylase 10	
HDAC2	NM_001527.1		histone deacetylase 2	
HDAC3	NM_003883.3		histone deacetylase 3	
HDAC6	NM_001321225.1		histone deacetylase 6	
HEG1	NM_020733.1	HEG homolog 1 (zebrafish),heart development protein with EGF-like domains 1	heart development protein with EGF like domains 1	
HEY1	NM_012258.3	hairly/enhancer-of-split related with YRPW motif 1,hes-related family bHLH transcription factor with YRPW motif 1	hes related family bHLH transcription factor with YRPW motif 1	
HEYL	NM_014571.4	hairly/enhancer-of-split related with YRPW motif-like,hes-related family bHLH transcription factor with YRPW motif-like	hes related family bHLH transcription factor with YRPW motif like	
HLCS	NM_000411.6	holocarboxylase synthetase (biotin-[propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)] ligase),holocarboxylase synthetase (biotin-[propionyl-Coenzyme A-carboxylase (ATP-hydrolysing)] ligase),holocarboxylase synthetase (biotin-[propionyl-CoA-carboxylase (ATP-hydrolysing)] ligase)	holocarboxylase synthetase	
HMGGA1	NM_145902.2	HMG1Y;high-mobility group (nonhistone chromosomal) protein isoforms I and Y	high mobility group AT-hook 1	
HMGGB1	NM_002128.4	HMG1;high-mobility group (nonhistone chromosomal) protein 1,high-mobility group box 1	high mobility group box 1	
HOMX3	NM_030661.5	HOMX1,HOMX1;homeo box A3	homeobox A3	
HOXB2	NM_002145.3	HOMX2,HOMX2;homeo box B2	homeobox B2	
HOXB3	NM_001330322.2	HOMX2,HOMX2G;homeo box B3	homeobox B3	
HOXB4	NM_024015.5	HOMX2,HOMX2F;homeo box B4	homeobox B4	
HOXC8	NM_022658.3	HOMX3,HOMX3A;homeo box C8	homeobox C8	
HPD	NM_002150.2	PPD	4-hydroxyphenylpyruvate dioxygenase	
HRA5	NM_005343.2	HRA51,v-Ha-ras Harvey rat sarcoma viral oncogene homolog,Harvey rat sarcoma viral oncogene homolog	HRA5 proto-oncogene, GTPase	
HSD17B12	NM_016142.2	hydroxysteroid (17-beta) dehydrogenase 12	hydroxysteroid 17-beta dehydrogenase 12	
ID2	NM_002166.4	inhibitor of differentiation 2,inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	inhibitor of DNA binding 2	
ID4	NM_001546.2	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	inhibitor of DNA binding 4, HLH protein	
IDO1	NM_002164.5	IDO,INDO;indoleamine-pyrrole 2,3 dioxygenase	indoleamine 2,3-dioxygenase 1	
IFNAR1	NM_000529.2	IFNAR;interferon (alpha, beta and omega) receptor 1	interferon alpha and beta receptor subunit 1	
IFNGR1	NM_000416.1	IFNGR	interferon gamma receptor 1	
IFNGR2	NM_005534.3	IFNGT1;interferon gamma receptor 2 (interferon gamma transducer 1)	interferon gamma receptor 2	
IFT140	NM_014714.3	WDTC2;WD and tetra-tryptophan repeats 2,intraflagellar transport 140 homolog (Chlamydomonas)	intraflagellar transport 140	
IGFBP3	NM_000598.4	insulin-like growth factor binding protein 3	insulin like growth factor binding protein 3	
IKBK	NM_003639.2	IP2,IP1;incontinentia pigmenti,inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma,inhibitor of nuclear factor kappa B kinase subunit gamma	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	targets variants 1, 3 & non-coding variant
IL15	NM_172174.2		interleukin 15	
IL4R	NM_000418.3		interleukin 4 receptor	
IL6ST	NM_002184.2	interleukin 6 signal transducer (gp130, oncostatin M receptor),interleukin 6 signal transducer	interleukin 6 cytokine family signal transducer	
ILK	NM_004517.2	integrin-linked kinase	integrin linked kinase	
INO80	NM_017553.1	INO1;INO80 complex homolog 1 (S. cerevisiae),INO80 homolog (S. cerevisiae)	INO80 complex ATPase subunit	
INS	NM_000207.2	IDDM2,IDDM1;insulin-dependent diabetes mellitus 2	insulin	
IRAK1	NM_001569.3		interleukin 1 receptor associated kinase 1	
ISL1	NM_002202.2	ISL1 transcription factor, LIM/homeodomain, (islet-1)	ISL LIM homeobox 1	
ITGA2B	NM_000419.3	GP2B;integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41B),integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)	integrin subunit alpha 2b	
ITGA5	NM_002205.2	FNRA;integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	integrin subunit alpha 5	
ITGB1	NM_033666.2	FNRB,MSK12,MDF2;integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	integrin subunit beta 1	
ITGB3	NM_000212.2	GP3A;integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	integrin subunit beta 3	
IVD	NM_002225.3	isovaleryl Coenzyme A dehydrogenase,isovaleryl CoA dehydrogenase	isovaleryl-CoA dehydrogenase	
JAK1	NM_002227.1	JAK1B	Janus kinase 1	
JAK2	NM_004972.3		Janus kinase 2	
JARID2	NM_001267040.1	JMJ;jumonji (mouse) homolog,Jumonji, AT rich interactive domain 2,jumonji, AT rich interactive domain 2	jumonji and AT-rich interaction domain containing 2	
JUN	NM_002228.4	v-jun avian sarcoma virus 17 oncogene homolog,jun oncogene	Jun proto-oncogene, AP-1 transcription factor subunit	

JUNB	NM_002229.2		JunB proto-oncogene, AP-1 transcription factor subunit
JUND	NM_005354.4		JunD proto-oncogene, AP-1 transcription factor subunit
JUP	NM_002230.2	CTNNG;catenin (cadherin-associated protein), gamma 80kDa	junction plakoglobin
KDM1A	NM_015013.3	AOF2,KDM1;amine oxidase (flavin containing) domain 2,lysine (K)-specific demethylase 1	lysine demethylase 1A
KIF11	NM_004523.3	KNLS1;kinesin-like 1	kinesin family member 11
KIF23	NM_138555.2	KNLS5;kinesin-like 5 (mitotic kinesin-like protein 1)	kinesin family member 23
KIFC3	NM_001130099.1		kinesin family member C3
KITLG	NM_003994.5	MGF	KIT ligand
KLF2	NM_016270.2	Kruppel-like factor 2 (lung)	Kruppel like factor 2
KLF4	NM_004235.4	Kruppel-like factor 4 (gut)	Kruppel like factor 4
KLF5	NM_001730.3	BTEB2;Kruppel-like factor 5 (intestinal)	Kruppel like factor 5
KPNA4	NM_002268.5	karyopherin alpha 4 (importin alpha 3),karyopherin alpha 4	karyopherin subunit alpha 4
KPNB1	NM_002265.4	karyopherin (importin) beta 1	karyopherin subunit beta 1
KRAS	NM_033360.2	KRAS2,v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog,v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog,Kirsten rat sarcoma viral oncogene homolog	KRAS proto-oncogene, GTPase
LAMB1	NM_002291.2	CLM;cutis laxa with marfanoid phenotype,laminin, beta 1	laminin subunit beta 1
LAMC1	NM_002293.3	LAMB2;laminin, gamma 1 (formerly LAMB2)	laminin subunit gamma 1
LAMP1	NM_005561.3	lysosomal-associated membrane protein 1	lysosomal associated membrane protein 1
LAMTOR1	NM_017907.2	C11orf59;chromosome 11 open reading frame 59	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
LDB1	NM_001113407.1		LIM domain binding 1
LEF1	NM_016269.3	lymphoid enhancer-binding factor 1	lymphoid enhancer binding factor 1
LEFTY2	NM_003240.2	TGFb4,EBAF;endometrial bleeding associated factor (left-right determination, factor A; transforming growth factor beta superfamily)	left-right determination factor 2
LEO1	NM_138792.2	Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	LEO1 homolog, Paf1/RNA polymerase II complex component
LEPR	NM_001003679.1		leptin receptor
LHX1	NM_005568.5		LIM homeobox 1
LIF	NM_002309.4	leukemia inhibitory factor,LIF, interleukin 6 family cytokine	LIF interleukin 6 family cytokine
LIFR	NM_002310.3	leukemia inhibitory factor receptor,leukemia inhibitory factor receptor alpha,LIF receptor alpha	LIF receptor subunit alpha
LIMD1	NM_014240.2	LIM domains containing 1	LIM domain containing 1
LIN28A	NM_024674.5	LIN28;lin-28 homolog (C. elegans)	lin-28 homolog A
LIN9	XM_011544173.1	lin-9 homolog (C. elegans)	lin-9 DREAM MuvB core complex component
LOX	NM_002317.5		lysyl oxidase
LUM	NM_002345.3	LDC	lumican
MAD2L2	NM_001127325.1	MAD2 (mitotic arrest deficient, yeast, homolog)-like 2	mitotic arrest deficient 2 like 2
MAF	NM_005360.4	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog	MAF bZIP transcription factor
MAFA	NM_201589.2	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog A	MAF bZIP transcription factor A
MAFF	NM_012323.3	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F	MAF bZIP transcription factor F
MAGI2	NM_012301.3		membrane associated guanylate kinase, WW and PDZ domain containing 2
MAP1LC3A	NM_032514.2		microtubule associated protein 1 light chain 3 alpha
MAP1LC3B	NM_022818.5		microtubule associated protein 1 light chain 3 beta
MAP2	NM_001039538.1		MAP1LC3B2 (NM_001085481)
MAP2K1	NM_002755.2	PRKM1	microtubule associated protein 2
MAP2K4	NM_003010.2	SERK1	mitogen-activated protein kinase kinase 1
MAP3K12	NM_006301.2	ZPK	mitogen-activated protein kinase kinase 4
MAP3K7	NM_145333.1	TAK1	mitogen-activated protein kinase kinase kinase 12
MAP4K3	NM_003618.3	RAB8IPL1	mitogen-activated protein kinase kinase kinase 7
MAP4K4	NM_004834.3		mitogen-activated protein kinase kinase kinase 3
MAPK1	NM_138957.2	PRKM2,PRKM1	mitogen-activated protein kinase kinase kinase 4
MAPK10	NM_138981.2	PRKM10	mitogen-activated protein kinase 1
MAPK11	NM_002751.6	PRKM11	mitogen-activated protein kinase 10
MAPK14	NM_001315.2	CSPB1,CSBP1,CSBP2	mitogen-activated protein kinase 11
MAPK3	NM_001040056.1	PRKM3	mitogen-activated protein kinase 14
MAPK7	NM_139033.2	PRKM7	mitogen-activated protein kinase 3
MAPK8	NM_002750.2	PRKM8	mitogen-activated protein kinase 7
MAPK9	NM_139068.2	PRKM9	mitogen-activated protein kinase 8
MAPKAP1	NM_001006617.1	mitogen-activated protein kinase associated protein 1	mitogen-activated protein kinase 9
MAPKAPK2	NM_004759.3	mitogen-activated protein kinase-activated protein kinase 2	MAPK associated protein 1
MAPKAPK5	NM_003668.2	mitogen-activated protein kinase-activated protein kinase 5	MAPK activated protein kinase 2
MARK3	NM_002376.4	MAP/microtubule affinity-regulating kinase 3	MAPK activated protein kinase 5
MAT1A	NM_000429.2	methionine adenosyltransferase I, alpha	microtubule affinity regulating kinase 3
MCEE	NM_032601.3		methionine adenosyltransferase 1A
MCM3	NM_002388.3	minichromosome maintenance deficient (S. cerevisiae) 3,MCM3 minichromosome maintenance deficient 3 (S. cerevisiae)	methylmalonyl-CoA epimerase
MCM6	NM_005915.4	minichromosome maintenance deficient (mis5, S. pombe) 6,MCM6 minichromosome maintenance deficient 6 (MISS homolog, S. pombe) (S. cerevisiae),minichromosome maintenance deficient 6 homolog (S. cerevisiae)	minichromosome maintenance complex component 3
MDH1	NM_005917.3	malate dehydrogenase 1, NAD (soluble)	minichromosome maintenance complex component 6
MDK	NM_002391.3	NEGF2;neurite growth-promoting factor 2	malate dehydrogenase 1
MECP2	NM_001110792.1	RTT,MRX16,MRX79;mental retardation, X-linked 16,mental retardation, X-linked 79,Rett syndrome,methyl CpG binding protein 2 (Rett syndrome),methyl CpG binding protein 2	midkine
MEF2A	NM_005587.2		methyl-CpG binding protein 2
MEIS1	NM_002398.2	Meis1 (mouse) homolog,Meis1, myeloid ecotropic viral integration site 1 homolog (mouse)	myocyte enhancer factor 2A
MEOX1	NM_001040002.1	mesenchyme homeo box 1	Meis homeobox 1
MESP1	NM_018670.3	mesoderm posterior 1 homolog (mouse),mesoderm posterior basic helix-loop-helix transcription factor 1	mesenchyme homeobox 1
MFAF5	NM_003480.4	microfibrillar associated protein 5	mesoderm posterior bHLH transcription factor 1
MGRN1	NM_001142290.2	mahogunin, ring finger 1,mahogunin ring finger 1, E3 ubiquitin protein ligase	microfibril associated protein 5
MIER1	NM_001077700.2	mesoderm induction early response 1 homolog (Xenopus laevis),mesoderm induction early response 1, transcriptional regulator	mahogunin ring finger 1
MINK1	NM_001024937.1	misshapen-like kinase 1 (zebrafish),misshapen-like kinase 1	MIER1 transcriptional regulator
MIXL1	NM_031944.1	Mix1 homeobox (Xenopus laevis)-like 1,Mix1 homeobox-like 1 (Xenopus laevis)	misshapen like kinase 1
MMP1	NM_002421.3	CLG;matrix metalloproteinase 1 (interstitial collagenase)	Mix paired-like homeobox
MMP14	NM_004995.2	matrix metalloproteinase 14 (membrane-inserted),matrix metalloproteinase 14 (membrane-inserted)	matrix metalloproteinase 1
MMP2	NM_001127891.1	CLG4,CLG4A;matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	matrix metalloproteinase 14
MORF4L1	NM_006791.3		matrix metalloproteinase 2
MOV10L1	NM_001164104.1	Mov10 (mouse)-like 1,Mov10L1, Moloney leukemia virus 10-like 1, homolog (mouse),Mov10 RISC complex RNA helicase like 1	mortality factor 4 like 1
MSX2	NM_002449.4	PFM1;msh (Drosophila) homeo box homolog 2,parietal foramina 1,msh homeobox homolog 2 (Drosophila)	Mov10 like RISC complex RNA helicase 1
MT3	NM_005954.4	metallothionein 3 (growth inhibitory factor (neurotrophic))	msh homeobox 2
MTF1	NM_005955.2		metallothionein 3
MTMR4	NM_004687.4		metal regulatory transcription factor 1
MYC	NM_002467.3	v-myc avian myelocytomatosis viral oncogene homolog	myotubularin related protein 4
Mycoplasma	NR_041743.1		MYC proto-oncogene, bHLH transcription factor
MYH7	NM_000257.2	CMH1,MPD1;myopathy, distal 1,myosin, heavy polypeptide 7, cardiac muscle, beta	

MYL2	NM_000432.3	myosin, light polypeptide 2, regulatory, cardiac, slow,myosin, light chain 2, regulatory, cardiac, slow	myosin light chain 2
NANOG	NM_024865.2		NANOGP8 (NM_001355281)
NAV1	NM_020443.2		neuron navigator 1
NCAM1	NM_000615.5		neural cell adhesion molecule 1
NCOR1	NM_006311.3	nuclear receptor co-repressor 1	nuclear receptor corepressor 1
NDUFAB1	NM_005003.3	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1 (8kD, SDAP),NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa	NADH:ubiquinone oxidoreductase subunit AB1
NDUF52	NM_001166159.1	NADH dehydrogenase (ubiquinone) Fe-S protein 2 (49kD) (NADH-coenzyme Q reductase),NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	NADH:ubiquinone oxidoreductase core subunit S2
NEDD8	NM_006156.3	neural precursor cell expressed, developmentally down-regulated 8	NEDD8 ubiquitin like modifier
NES	NM_006617.1		nestin
NEUROG1	NM_006161.2	NEUROD3	neurogenin 1
NEUROG3	NM_020999.4		neurogenin 3
NF2	NM_000268.3	neurofibromin 2 (bilateral acoustic neuroma),neurofibromin 2 (merlin)	neurofibromin 2
NFATC3	NM_004555.2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3,nuclear factor of activated T-cells 3	nuclear factor of activated T cells 3
NFATC4	NM_001136022.2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4,nuclear factor of activated T-cells 4	nuclear factor of activated T cells 4
NFE2L1	NM_003204.2	TCF11;nuclear factor (erythroid-derived 2)-like 1,nuclear factor, erythroid 2-like 1	nuclear factor, erythroid 2 like 1
NFE2L2	NM_006164.3	nuclear factor (erythroid-derived 2)-like 2,nuclear factor, erythroid 2-like 2	nuclear factor, erythroid 2 like 2
NFKB2	NM_001077493.1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	nuclear factor kappa B subunit 2
NFYA	NM_002505.5	nuclear transcription factor Y, alpha	nuclear transcription factor Y subunit alpha
NID2	NM_007361.3		nidogen 2
NIPBL	NM_015384.4	Nipped-B homolog (Drosophila),NIPBL, cohesin loading factor	NIPBL cohesin loading factor
NISCH	NM_001276293.1		nischarin
NKX2-5	NM_004387.2	CSX,NKX2E;cardiac-specific homeo box,NK2 transcription factor related, locus 5 (Drosophila)	NK2 homeobox 5
NLK	NM_016231.4	nemo-like kinase	nemo like kinase
NLN	NM_020726.2	AGTBP;angiotensin binding protein,neurolysin (metallopeptidase M3 family)	neurolysin
NNMT	NM_006169.2		nicotinamide N-methyltransferase
NODAL	NM_018055.3	nodal, mouse, homolog,nodal homolog (mouse)	nodal growth differentiation factor
NOG	NM_005450.4	SYNS1,SYM1;synostoses (multiple) syndrome 1,symphalangism 1 (proximal)	noggin
NPHP1	NM_207181.2	NPH1;nephronophthisis 1 (juvenile)	nephrocystin 1
NROB1	NM_000475.4	AHC,DSS	nuclear receptor subfamily 0 group B member 1
NR2F2	NM_021005.2	ARP1,TFCOUP2;nuclear receptor subfamily 2, group F, member 2	nuclear receptor subfamily 2 group F member 2
NR5A2	NM_205860.1	FTF;nuclear receptor subfamily 5, group A, member 2	nuclear receptor subfamily 5 group A member 2
NRAS	NM_002524.4	neuroblastoma RAS viral (v-ras) oncogene homolog,neuroblastoma RAS viral oncogene homolog	NRAS proto-oncogene, GTPase
NRBF2	NM_030759.5		nuclear receptor binding factor 2
NRF1	NM_005011.3		nuclear respiratory factor 1
NRL	NM_006177.3		neural retina leucine zipper
NSFL1C	NM_016143.5	NSFL1 (p97) cofactor (p47)	NSFL1 cofactor
NTRK2	NM_001007097.1	neurotrophic tyrosine kinase, receptor, type 2	neurotrophic receptor tyrosine kinase 2
NUDC	NM_006600.3	nuclear distribution gene C homolog (A. nidulans),nuclear distribution C homolog (A. nidulans),nudC nuclear distribution protein	nuclear distribution C, dynein complex regulator
NUP133	NM_018230.2	nucleoporin 133kDa	nucleoporin 133
NUP98	NM_005387.4	nucleoporin 98kDa,nucleoporin 98	nucleoporin 98 and 96 precursor
OAT	NM_000274.3		ornithine aminotransferase
ODAM	NM_017855.3		odontogenic, ameloblast associated
OGT	NM_181673.2	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	O-linked N-acetylglucosamine (GlcNAc) transferase
OMA1	NM_145243.4	OMA1 zinc metallopeptidase homolog (S. cerevisiae)	OMA1 zinc metallopeptidase
ORC3	NM_181837.3	ORC3L;origin recognition complex, subunit 3 (yeast homolog)-like,origin recognition complex, subunit 3-like (yeast),origin recognition complex, subunit 3 homolog (yeast),origin recognition complex, subunit 3	origin recognition complex subunit 3
OTX2	NM_021728.3	orthodenticle homolog 2 (Drosophila)	orthodenticle homeobox 2
OXSM	NM_017897.2		3-oxoacyl-ACP synthase, mitochondrial
PAFAH1B1	NM_000430.4	MDCR,MDS;platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit (45kD),Miller-Dieker syndrome chromosome region,platelet-activating factor acetylhydrolase, isoform 1b, alpha subunit 45kDa,platelet-activating factor acetylhydrolase, isoform 1b, subunit 1 (45kDa),platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)	platelet activating factor acetylhydrolase 1b regulatory subunit 1
PAH	NM_000277.1		phenylalanine hydroxylase
PAN2	NM_001127460.2	USP52;ubiquitin specific protease 52,ubiquitin specific peptidase 52,PAN2 poly(A) specific ribonuclease subunit homolog (S. cerevisiae),PAN2 poly(A) specific ribonuclease subunit	poly(A) specific ribonuclease subunit PAN2
PAR3	NM_019619.2	par-3 (partitioning defective 3, C.elegans) homolog,par-3 partitioning defective 3 homolog (C. elegans)	par-3 family cell polarity regulator
PARK7	NM_001123377.1	Parkinson disease (autosomal recessive, early onset) 7,parkinson protein 7	Parkinsonism associated deglycase
PARP1	NM_001618.3	PPOL,ADPRT;ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase),poly (ADP-ribose) polymerase family, member 1	poly(ADP-ribose) polymerase 1
PAXIP1	NM_007349.3	PAXIP1L;PAX transcription activation domain interacting protein 1 like,PAX interacting (with transcription-activation domain) protein 1	PAX interacting protein 1
PCCA	NM_000282.3	propionyl Coenzyme A carboxylase, alpha polypeptide	propionyl-CoA carboxylase subunit alpha
PCCB	NM_000532.4	propionyl Coenzyme A carboxylase, beta polypeptide	propionyl-CoA carboxylase subunit beta
PCGF6	NM_001011663.1	RNF134;ring finger protein 134	polycomb group ring finger 6
PCNA	NM_002592.2		proliferating cell nuclear antigen
PDCD10	NM_145859.1	CCM3;cerebral cavernous malformations 3	programmed cell death 10
PDE7A	NM_001242318.2		phosphodiesterase 7A
PDGFRA	NM_006206.3	platelet-derived growth factor receptor, alpha polypeptide	platelet derived growth factor receptor alpha
PDGFRB	NM_002609.3	PDGFR;platelet-derived growth factor receptor, beta polypeptide	platelet derived growth factor receptor beta
PDHB	NM_000925.3	pyruvate dehydrogenase (lipoamide) beta	pyruvate dehydrogenase E1 subunit beta
PDPK1	NM_002613.5		3-phosphoinositide dependent protein kinase 1
PFKFB1	NM_002625.2	PFRX	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1
PFN1	NM_005022.2		profilin 1
PGAM2	NM_000290.3	phosphoglycerate mutase 2 (muscle)	phosphoglycerate mutase 2
PGM1	NM_001172818.1		phosphoglucomutase 1
PHF1	NM_002636.4		PHD finger protein 1
PHF14	NM_014660.3		PHD finger protein 14
PHF2	NM_005392.3		PHD finger protein 2
PIAS1	NM_016166.1	DDXBP1;DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1	protein inhibitor of activated STAT 1
PIAS2	NM_004671.3		protein inhibitor of activated STAT 2
PIK3CA	NM_006218.2	phosphoinositide-3-kinase, catalytic, alpha polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
PIK3CB	NM_006219.1	PIK3C1;phosphoinositide-3-kinase, catalytic, beta polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
PIK3CD	NM_005026.3	phosphoinositide-3-kinase, catalytic, delta polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
PIK3R1	NM_181504.2	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	phosphoinositide-3-kinase regulatory subunit 1
PIK3R3	NM_003629.3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)	phosphoinositide-3-kinase regulatory subunit 3
PIK3R4	NM_014602.1	phosphoinositide-3-kinase, regulatory subunit 4	phosphoinositide-3-kinase regulatory subunit 4
PIM1	NM_002648.3	PIM;pim-1 oncogene	Pim-1 proto-oncogene, serine/threonine kinase
PITX2	NM_000325.5	IRID2,IHG2,RIEG,RIEG1,RGS;paired-like homeodomain transcription factor 2,paired-like homeodomain 2	paired like homeodomain 2

PKD2	NM_000297.2	polycystic kidney disease 2 (autosomal dominant)	polycystin 2, transient receptor potential cation channel
PLCG1	NM_002660.2	PLC1;phospholipase C, gamma 1 (formerly subtype 148);phospholipase C, gamma 1	phospholipase C gamma 1
PLCG2	NM_002661.2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	phospholipase C gamma 2
PMP22	NM_000304.3	CMT1A;Charcot-Marie-Tooth neuropathy 1A (greatly reduced nerve conduction velocity, hereditary motor sensory neuropathy Ia)	peripheral myelin protein 22
POLR1C	NM_004875.2	polymerase (RNA) I polypeptide C, 30kDa;RNA polymerase I subunit C	RNA polymerase I and III subunit C
POLR2D	NM_004805.3	polymerase (RNA) II (DNA directed) polypeptide D	RNA polymerase II subunit D
POSTN	NM_001135935.1	periostin, osteoblast specific factor	periostin
POU5F1	NM_002701.4	OTF3;POU domain class 5, transcription factor 1	POU class 5 homeobox 1 POU5F1B (NM_001159542)
PPARD	NM_006238.4	peroxisome proliferative activated receptor, delta;peroxisome proliferator-activated receptor delta	peroxisome proliferator activated receptor delta
PPARG	NM_005037.5	peroxisome proliferative activated receptor, gamma;peroxisome proliferator-activated receptor gamma	peroxisome proliferator activated receptor gamma
PPARGC1A	NM_013261.3	PPARGC1;peroxisome proliferative activated receptor, gamma, coactivator 1;peroxisome proliferative activated receptor, gamma, coactivator 1, alpha;peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	PPARG coactivator 1 alpha sub-maximal isoform coverage due to non-overlapping transcript variants
PPM1A	NM_021003.4	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform;protein phosphatase, Mg2+/Mn2+ dependent, 1A	protein phosphatase, Mg2+/Mn2+ dependent 1A
PPP1CA	NM_002708.3	PPP1A;protein phosphatase 1, catalytic subunit, alpha isoform;protein phosphatase 1, catalytic subunit, alpha isozyme	protein phosphatase 1 catalytic subunit alpha
PPP1CB	NM_002709.2	protein phosphatase 1, catalytic subunit, beta isoform;protein phosphatase 1, catalytic subunit, beta isozyme	protein phosphatase 1 catalytic subunit beta
PPP1CC	NM_002710.2	protein phosphatase 1, catalytic subunit, gamma isoform;protein phosphatase 1, catalytic subunit, gamma isozyme	protein phosphatase 1 catalytic subunit gamma
PPP2CA	NM_002715.2	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform;protein phosphatase 2, catalytic subunit, alpha isozyme	protein phosphatase 2 catalytic subunit alpha
PPP2R1A	NM_014225.3	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform	protein phosphatase 2 scaffold subunit Aalpha
PPP2R1B	NM_002716.4	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform;protein phosphatase 2 regulatory subunit A, beta	protein phosphatase 2 scaffold subunit Abeta
PPP2R2A	NM_001177591.1	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), alpha isoform	protein phosphatase 2 regulatory subunit Balpha
PPP2R2C	NM_001206995.1	protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), gamma isoform	protein phosphatase 2 regulatory subunit Bgamma
PPP2R2D	NM_001291310.1	protein phosphatase 2, regulatory subunit B, delta isoform	protein phosphatase 2 regulatory subunit Bdelta
PPP2R5B	NM_006244.3	protein phosphatase 2, regulatory subunit B (B56), beta isoform	protein phosphatase 2 regulatory subunit B'beta
PPP2R5C	NM_002719.3	protein phosphatase 2, regulatory subunit B (B56), gamma isoform	protein phosphatase 2 regulatory subunit B'gamma
PPP2R5E	NM_006246.3	protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	protein phosphatase 2 regulatory subunit B'epsilon
PPP3CB	NM_021132.2	CALNB;protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform (calcineurin A beta);protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform;protein phosphatase 3, catalytic subunit, beta isozyme	protein phosphatase 3 catalytic subunit beta
PPP3R1	NM_000945.3	protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I);protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa, alpha isoform (calcineurin B, type I);protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform;protein phosphatase 3, regulatory subunit B, alpha	protein phosphatase 3 regulatory subunit B, alpha
PPP5C	NM_001204284.1	PPP5;protein phosphatase 5, catalytic subunit	protein phosphatase 5 catalytic subunit
PPT1	NM_000310.3	PPT	palmitoyl-protein thioesterase 1
PPT2	NM_001204103.2		palmitoyl-protein thioesterase 2
PRAP1	NM_145202.4		proline rich acidic protein 1
PRDM14	NM_024504.2	PR domain containing 14,PR domain 14	PR/SET domain 14
PRDX3	NM_014098.3	AOP1;antioxidant protein 1	peroxiredoxin 3
PRKAB1	NM_006253.4	protein kinase, AMP-activated, beta 1 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit beta 1
PRKAG1	NM_002733.3	protein kinase, AMP-activated, gamma 1 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit gamma 1
PRKAG2	NM_016203.3	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit gamma 2
PRKAR1A	NM_212472.1	PRKAR1,TSE1;tissue specific extinguisher 1;protein kinase, cAMP-dependent, regulatory, type I, alpha;protein kinase, cAMP-dependent, regulatory subunit type I alpha	protein kinase cAMP-dependent type I regulatory subunit alpha
PRKCA	NM_002737.2	PKCA;protein kinase C, alpha	protein kinase C alpha
PRKCH	NM_006255.3	PRKCL;protein kinase C, eta	protein kinase C eta
PRKCI	NM_002740.5	DXS1179E;protein kinase C, iota	protein kinase C iota
PRKQC	NM_006257.2	protein kinase C, theta	protein kinase C theta
PSENE1	NM_172341.1	presenilin enhancer 2 homolog (C. elegans)	presenilin enhancer, gamma-secretase subunit
PSMB5	NM_001130725.1	proteasome (prosome, macropain) subunit, beta type, 5;proteasome subunit beta 5	proteasome 20S subunit beta 5
PTEN	NM_000314.3	BZS,MHAM	phosphatase and tensin homolog
PTK2	NM_005607.3	PTK2 protein tyrosine kinase 2	protein tyrosine kinase 2
PTPN1	NM_002827.3	PTP1B	protein tyrosine phosphatase non-receptor type 1
PTPN11	NM_002834.3	NS1;Noonan syndrome 1;protein tyrosine phosphatase, non-receptor type 11	protein tyrosine phosphatase non-receptor type 11
PTPN13	NM_080684.2	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)	protein tyrosine phosphatase non-receptor type 13
PTPN2	NM_002828.3	PTPT	protein tyrosine phosphatase non-receptor type 2
PTPN6	NM_002831.5		protein tyrosine phosphatase non-receptor type 6
PTPRC	NM_002838.4	CD45	protein tyrosine phosphatase receptor type C
PTTG1/2	NM_006607.2		targets CD45RA isoform only pituitary tumor-transforming 2
PYCR1	NM_006907.2		pyrroline-5-carboxylate reductase 1
PYCR2	NM_001271681.1	pyrroline-5-carboxylate reductase family member 2	pyrroline-5-carboxylate reductase 2
RAC1	NM_006908.4	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	Rac family small GTPase 1
RAC2	NM_002872.4	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	Rac family small GTPase 2
RAD1	NM_002853.3	RAD1 (S. pombe) homolog,RAD1 homolog (S. pombe)	RAD1 checkpoint DNA exonuclease
RAD9A	NM_001243224.1	RAD9;RAD9 (S. pombe) homolog,RAD9 homolog A (S. pombe)	RAD9 checkpoint clamp component A
RAE1	NM_003610.3	RAE1 (RNA export 1, S.pombe) homolog,RAE1 RNA export 1 homolog (S. pombe)	ribonucleic acid export 1
RAF1	NM_002880.3	v-raf-1 murine leukemia viral oncogene homolog 1	Raf-1 proto-oncogene, serine/threonine kinase
RALA	NM_005402.3	RAL;v-ral simian leukemia viral oncogene homolog A (ras related)	RAS like proto-oncogene A
RANBP2	XM_011511576.3	ANE1;acute necrotizing encephalopathy 1 (autosomal dominant)	RAN binding protein 2
RAP1A	NM_001010935.3		RAP1A, member of RAS oncogene family
RAP1B	NM_015646.5		RAP1B, member of RAS oncogene family
RAPGEF2	NM_014247.2	PDZGEF1;PDZ domain containing guanine nucleotide exchange factor (GEF) 1,Rap guanine nucleotide exchange factor (GEF) 2	Rap guanine nucleotide exchange factor 2
RAPGEF3	NM_001098531.2	RAP guanine-nucleotide-exchange factor (GEF) 3,Rap guanine nucleotide exchange factor (GEF) 3	Rap guanine nucleotide exchange factor 3
RAPGEF4	NM_007023.4	RAP guanine-nucleotide-exchange factor (GEF) 4,Rap guanine nucleotide exchange factor (GEF) 4	Rap guanine nucleotide exchange factor 4
RARB	NM_000965.5	retinoic acid receptor, beta	retinoic acid receptor beta
RASA1	NM_002890.2	RASA;RAS p21 protein activator (GTPase activating protein) 1	RAS p21 protein activator 1
RASGRP1	NM_005739.3	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	RAS guanyl releasing protein 1

RASGRP2	NM_001098671.1	RAS guanyl releasing protein 2 (calcium and DAG-regulated)	RAS guanyl releasing protein 2
RASIP1	NM_017805.2		Ras interacting protein 1
RB1CC1	NM_001083617.1		RB1 inducible coiled-coil 1
			RB binding protein 4, chromatin remodeling factor
RBBP4	NM_001135255.1	retinoblastoma-binding protein 4,retinoblastoma binding protein 4	RB binding protein 4, chromatin remodeling factor
RBL2	NM_005611.3	retinoblastoma-like 2	RB transcriptional corepressor like 2
RBM14	NM_006328.3		RNA binding motif protein 14
RBM3	NM_006743.4		RNA binding motif protein 3
RELA	NM_021975.4	NFKB3;nuclear factor of kappa light polypeptide gene enhancer in B-cells 3,v-rel avian reticuloendotheliosis viral oncogene homolog A	RELA proto-oncogene, NF-kB subunit
REST	NM_001193508.1	DFNA27;RE1-silencing transcription factor,deafness, autosomal dominant 27	RE1 silencing transcription factor
RGN	NM_152869.3	regucalcin (senescence marker protein-30)	regucalcin
RGS4	NM_001102445.3	SCZD9;regulator of G-protein signalling 4,schizophrenia disorder 9,regulator of G-protein signaling 4	regulator of G protein signaling 4
RHEB	NM_005614.3	RHEB2;Ras homolog enriched in brain 2,Ras homolog enriched in brain	Ras homolog, mTORC1 binding
RHOA	NM_001664.2	ARH12,ARHA;ras homolog gene family, member A	ras homolog family member A
RHOB	NM_004040.2	ARH6,ARHB;ras homolog gene family, member B	ras homolog family member B
RHOC	NM_175744.4	ARH9,ARHC;ras homolog gene family, member C	ras homolog family member C
RIMKLA	NM_173642.4	FAM80A;family with sequence similarity 80, member A	ribosomal modification protein rimK like family member A
RIMKLB	NM_020734.2	FAM80B;family with sequence similarity 80, member B	ribosomal modification protein rimK like family member B
RNF111	NM_017610.6		ring finger protein 111
RNF2	NM_007212.3		ring finger protein 2
RNF4	NM_002938.4		ring finger protein 4
RNF8	NM_003958.3		ring finger protein 8
ROCK1	NM_005406.1		Rho associated coiled-coil containing protein kinase 1
ROCK2	NM_004850.3		Rho associated coiled-coil containing protein kinase 2
ROR2	NM_004560.4	NTRKR2,BDB,BDB1;receptor tyrosine kinase-like orphan receptor 2	receptor tyrosine kinase like orphan receptor 2
RP56KA2	NM_021135.5	ribosomal protein S6 kinase, 90kD, polypeptide 2	ribosomal protein S6 kinase A2
RP56KA3	NM_004586.2	MRX19,CLS;ribosomal protein S6 kinase, 90kD, polypeptide 3	ribosomal protein S6 kinase A3
RP56KB1	NM_003161.2	STK14A;ribosomal protein S6 kinase, 70kD, polypeptide 1	ribosomal protein S6 kinase B1
RRAGC	NM_001271851.1	Ras-related GTP binding C	Ras related GTP binding C
RRAS2	NM_001102669.2	related RAS viral (r-ras) oncogene homolog 2	RAS related 2
RWDD1	NM_001007464.1		RWD domain containing 1
SALL4	NM_020436.3	sal (Drosophila)-like 4,sal-like 4 (Drosophila)	spalt like transcription factor 4
SAV1	NM_021818.2	salvador homolog 1 (Drosophila)	salvador family WW domain containing protein 1
SCD	NM_005063.4	SCDOS;stearoyl-CoA desaturase opposite strand,stearoyl-CoA desaturase (delta-9-desaturase)	stearoyl-CoA desaturase
SCLY	NM_016510.5		selenocysteine lyase
SDC2	NM_002998.3	HSPG,HSPG1;heparan sulfate proteoglycan 1, cell surface-associated	syndecan 2
SDCBP	NM_001007070.1		syndecan binding protein
SDSL	NM_138432.2	serine dehydratase-like	serine dehydratase like
SEC13	NM_001136026.2	D3S1231E,SEC13L1,SEC13 (S. cerevisiae)-like 1,SEC13-like 1 (S. cerevisiae),SEC13 homolog (S. cerevisiae)	SEC13 homolog, nuclear pore and COP11 coat complex component
SEH1L	NM_001013437.1	SEH1-like (S. cerevisiae),SEH1-like nucleoporin	SEH1 like nucleoporin
SETD2	NM_014159.6	SET domain containing 2	SET domain containing 2, histone lysine methyltransferase
SF3B1	NM_001005526.1	splicing factor 3b, subunit 1, 155kD,splicing factor 3b, subunit 1, 155kDa	splicing factor 3b subunit 1
SFN	NM_006142.3		stratifin
SFPQ	NM_005066.2	splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated),splicing factor proline/glutamine-rich	splicing factor proline and glutamine rich
SGCG	NM_000231.2	DMDA1,MAM,LGMD2C;sarcoglycan, gamma (35kDa dystrophin-associated glycoprotein)	sarcoglycan gamma
SHC1	NM_001130040.1	SHC;SHC (Src homology 2 domain-containing) transforming protein 1	SHC adaptor protein 1
SIRT1	NM_012238.4	sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 1,sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)	sirtuin 1
SIRT2	NM_012237.3	SIR2L;sirtuin (silent mating type information regulation 2, S.cerevisiae, homolog) 2,sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)	sirtuin 2
SIX2	NM_016932.5	sine oculis homeobox (Drosophila) homolog 2,sine oculis homeobox homolog 2 (Drosophila)	SIX homeobox 2
SKI	NM_003036.3	v-ski avian sarcoma viral oncogene homolog	SKI proto-oncogene
SKP1	NM_006930.3	SKP1A,S-phase kinase-associated protein 1A (p19A)	S-phase kinase associated protein 1
SKP2	NM_005983.2	S-phase kinase-associated protein 2 (p45),S-phase kinase-associated protein 2, E3 ubiquitin protein ligase	S-phase kinase associated protein 2
SLC25A11	NM_003562.4	SLC20A4;solute carrier family 25 (mitochondrial carrier, oxoglutarate carrier), member 11	solute carrier family 25 member 11
SLC25A13	NM_001160210.1	CTLN2;solute carrier family 25, member 13 (citrin),solute carrier family 25 (aspartate/glutamate carrier), member 13	solute carrier family 25 member 13
SLC25A4	NM_001151.4	PEO3,PEO2,ANTI;solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	solute carrier family 25 member 4
SLC3A2	NM_001012662.2	MDU1;solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2,solute carrier family 3 (amino acid transporter heavy chain), member 2	solute carrier family 3 member 2
SLC44A1	NM_001286730.1	CDW92,CDW92 antigen,solute carrier family 44 (choline transporter), member 1	solute carrier family 44 member 1
SLC7A5	NM_003486.5	solute carrier family 7 (amino acid transporter light chain, L system), member 5	solute carrier family 7 member 5
SLIT2	NM_004787.1	SLIL3;slit (Drosophila) homolog 2,slit homolog 2 (Drosophila)	slit guidance ligand 2
SLIT3	NM_003062.2	SLIL2;slit (Drosophila) homolog 3,slit homolog 3 (Drosophila)	slit guidance ligand 3
SMAD2	NM_001003652.3	MADH2,MAD, mothers against decapentaplegic homolog 2 (Drosophila),SMAD, mothers against DPP homolog 2 (Drosophila)	SMAD family member 2
SMAD3	NM_001145104.1	MADH3,MAD, mothers against decapentaplegic homolog 3 (Drosophila),SMAD, mothers against DPP homolog 3 (Drosophila)	SMAD family member 3
SMAD4	NM_005359.3	MADH4,MAD, mothers against decapentaplegic homolog 4 (Drosophila),SMAD, mothers against DPP homolog 4 (Drosophila)	SMAD family member 4
SMAD9	NM_001127217.2	MADH6,MADH9,MAD, mothers against decapentaplegic homolog 9 (Drosophila),SMAD, mothers against DPP homolog 9 (Drosophila)	SMAD family member 9
SMARCAD1	NM_020159.4		SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1
SNAI1	NM_005985.3	snail 1 (drosophila homolog), zinc finger protein,snail homolog 1 (Drosophila),snail family zinc finger 1	snail family transcriptional repressor 1
SNAI2	NM_003068.3	SLUG;slug homolog, zinc finger protein (chicken),snail homolog 2 (Drosophila),snail family zinc finger 2	snail family transcriptional repressor 2
SOC1	NM_003745.1		suppressor of cytokine signaling 1
SOC2	NM_003877.3		suppressor of cytokine signaling 2
SOC3	NM_003955.4		suppressor of cytokine signaling 3
SOC5	NM_014011.4		suppressor of cytokine signaling 5
SOC6	NM_004232.2	SOC54;suppressor of cytokine signaling 4	suppressor of cytokine signaling 6
SOD2	NM_000636.2	superoxide dismutase 2, mitochondrial	superoxide dismutase 2
SON	NM_032195.2	C21orf50;SON DNA binding protein	SON DNA and RNA binding protein
SORBS1	NM_001034954.1	SH3D5;SH3-domain protein 5 (ponsin)	sorbin and SH3 domain containing 1
SOS1	NM_005633.2	GINGF;gingival fibromatosis, hereditary, 1,son of sevenless homolog 1 (Drosophila)	SOS Ras/Rac guanine nucleotide exchange factor 1
SOX17	NM_022454.3	SRY (sex determining region Y)-box 17,SRY-box 17	SRY-box transcription factor 17
SOX2	NM_003106.3	SRY (sex determining region Y)-box 2,SRY-box 2	SRY-box transcription factor 2
SP1	NM_138473.2		Sp1 transcription factor
SPARC	NM_003118.3	ON;osteonectin	secreted protein acidic and cysteine rich
SPAST	NM_014946.3	SPG4;spastic paraplegia 4 (autosomal dominant; spastin)	spastin
SPOPL	NM_001001664.1	speckle-type POZ protein-like	speckle type BTB/POZ protein like
SRC	NM_005417.3	SRC1;v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog	SRC proto-oncogene, non-receptor tyrosine kinase

SRF	NM_003131.3		serum response factor	
SST	NM_001048.3		somatostatin	
ST3GAL6	NM_001271148.1	SIAT10;sialyltransferase 10 (alpha-2,3-sialyltransferase VI)	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	
STAG1	NM_005862.2		stromal antigen 1	
STAM	NM_003473.2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1	signal transducing adaptor molecule	
STAM2	NM_005843.4	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2	signal transducing adaptor molecule 2	
STAR	NM_000349.3	steroidogenic acute regulator	steroidogenic acute regulatory protein	
STAT1	NM_007315.3	signal transducer and activator of transcription 1, 91kD,signal transducer and activator of transcription 1, 91kDa	signal transducer and activator of transcription 1	
STAT3	NM_003150.3	signal transducer and activator of transcription 3 (acute-phase response factor)	signal transducer and activator of transcription 3	
STMN4	NM_030795.2	stathmin-like 4	stathmin 4	
STRAP	NM_007178.3		serine/threonine kinase receptor associated protein	
STUB1	NM_005861.2		STIP1 homology and U-box containing protein 1	
STX17	NM_017919.2		syntaxin 17	
SUV39H2	NM_024670.3	suppressor of variegation 3-9 homolog 2 (Drosophila)	suppressor of variegation 3-9 homolog 2	
SYK	NM_003177.5	spleen tyrosine kinase	spleen associated tyrosine kinase	
SYNPO2	NM_133477.1		synaptopodin 2	
TAB2	NM_015093.3	MAP3K7IP2;mitogen-activated protein kinase kinase kinase 7 interacting protein 2,TGF-beta activated kinase 1/MAP3K7 binding protein 2	TGF-beta activated kinase 1 (MAP3K7) binding protein 2	sub-maximal isoform coverage due to non-overlapping transcript variants
TACC3	NM_006342.1	transforming, acidic coiled-coil containing protein 3	transforming acidic coiled-coil containing protein 3	
TAF5	NM_006951.3	TAF2D;TATA box binding protein (TBP)-associated factor, RNA polymerase II, D, 100kD,TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa	TATA-box binding protein associated factor 5	
TANK	NM_004180.2	TRAF2,TRAF family member-associated NFKB activator	TRAF family member associated NFKB activator	
TBCE	NM_001079515.2	KCS,HRD;tubulin-specific chaperone e,Kenny-Caffey syndrome,hypparathyroidism, growth and mental retardation, and dysmorphism	tubulin folding cofactor E	
TBK1	NM_013254.2	TANK-binding kinase 1	TANK binding kinase 1	
TBL1X	NM_005647.4	TBL1;transducin (beta)-like 1,transducin (beta)-like 1X-linked	transducin beta like 1 X-linked	
TBX3	NM_016569.3	UMS;ulnar mammary syndrome,T-box 3	T-box transcription factor 3	
TD02	NM_005651.2		tryptophan 2,3-dioxygenase	
TEAD1	NM_021961.5	TCF13,AA;atrophia areata, peripapillary chorioretinal degeneration,TEA domain family member 1 (SV40 transcriptional enhancer factor)	TEA domain transcription factor 1	
TEAD2	NM_003598.1	TEA domain family member 2	TEA domain transcription factor 2	
TEAD3	NM_003214.3	TEAD5;TEA domain family member 3	TEA domain transcription factor 3	
TERT	NM_198253.2		telomerase reverse transcriptase	
TET1	NM_030625.2	CXXC6,CXXC zinc finger 6,tet oncogene 1	tet methylcytosine dioxygenase 1	
TET2	NM_001127208.2	KIAA1546;KIAA1546,tet oncogene family member 2	tet methylcytosine dioxygenase 2	
TF	NM_001063.2		transferrin	
TFCP2L1	NM_014553.2	transcription factor CP2-like 1	transcription factor CP2 like 1	
TFDP2	NM_001178139.1	transcription factor Dp-2 (E2F dimerization partner 2)	transcription factor Dp-2	
TFPI	NM_001032281.2	LAC1;tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	tissue factor pathway inhibitor	
TGFB1	NM_000660.3	TGFB,DPD1;transforming growth factor, beta 1	transforming growth factor beta 1	
TGFB2	NM_003238.2	transforming growth factor, beta 2	transforming growth factor beta 2	
TGFB3	NM_003239.2	ARVD1,ARVD;arrhythmogenic right ventricular dysplasia 1,transforming growth factor, beta 3	transforming growth factor beta 3	
TGFB4	NM_000358.2	CSD3,ICD1,CSO1,CSO2;transforming growth factor, beta-induced, 68kD,transforming growth factor, beta-induced, 68kDa	transforming growth factor beta induced	
TGFB5	NM_003243.3	transforming growth factor, beta receptor III,transforming growth factor beta receptor III	transforming growth factor beta receptor 3	
TGIF2	NM_021809.7	TGFB-induced factor 2 (TALE family homeobox),TGFB-induced factor homeobox 2	TGFB induced factor homeobox 2	
TGM2	NM_004613.4	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	transglutaminase 2	
TH	NM_000360.3		tyrosine hydroxylase	
THY1	NM_006288.2		Thy-1 cell surface antigen	
TIMP3	NM_000362.4	SFD;tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	TIMP metalloproteinase inhibitor 3	
TJP1	NM_175610.2		tight junction protein 1	
TLE3	NM_005078.3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila),transducin like enhancer of split 3	TLE family member 3, transcriptional corepressor	
TLN1	NM_006289.3	TLN	taln 1	
TM4SF1	NM_014220.2	M3S1;transmembrane 4 superfamily member 1	transmembrane 4 L six family member 1	
TNFAIP3	NM_006290.2	tumor necrosis factor, alpha-induced protein 3	TNF alpha induced protein 3	
TNN2	NM_001001432.1	CMH2,CMD1D;cardiomyopathy, hypertrophic 2,cardiomyopathy, dilated 1D (autosomal dominant),troponin T type 2 (cardiac)	troponin T2, cardiac type	
TNRC6A	NM_014494.2	TNRC6;trinucleotide repeat containing 6,trinucleotide repeat containing 6A	trinucleotide repeat containing adaptor 6A	
TOMM20	NM_014765.3	translocase of outer mitochondrial membrane 20 homolog (yeast)	translocase of outer mitochondrial membrane 20	
TOR1A	NM_000113.2	DYT1;dystonia 1, torsion (autosomal dominant; torsin A),torsin family 1, member A (torsin A)	torsin family 1 member A	
TP53	NM_000546.2		tumor protein p53	
TRIM33	NM_015906.3	tripartite motif-containing 33	tripartite motif containing 33	
TSC22D1	NM_183422.2	TGFB14;transforming growth factor beta 1 induced transcript 4,TSC22 domain family, member 1	TSC22 domain family member 1	
TSG101	NM_006292.3	TSG10;tumor susceptibility gene 10,tumor susceptibility gene 101	tumor susceptibility 101	
TTC14	NM_133462.3		tetratricopeptide repeat domain 14	
TTK	NM_003318.3		TTK protein kinase	
TUBA1C	NM_032704.2	TUBA6;tubulin, alpha 6	tubulin alpha 1c	TUBA1B (NM_006082), TUBA1A (NM_001270400;NM_001270399;NM_006009)
TUBA3C	NM_006001.2	TUBA2;tubulin, alpha 2	tubulin alpha 3c	TUBA3E (NM_207312), TUBA3D (NM_080386)
TUBA4A	NM_006000.2	TUBA1;tubulin, alpha 1 (testis specific),tubulin, alpha 1	tubulin alpha 4a	TUBA4B (NM_001355221)
TUBB2A	NM_001069.2	TUBB,TUBB2;tubulin, beta polypeptide,tubulin, beta 2,tubulin, beta 2A	tubulin beta 2A class Ila	TUBB2B (NM_178012)
TXN2	NM_012473.3		thioredoxin 2	
TYK2	NM_003331.4		tyrosine kinase 2	
UBAP1	NM_001171201.1	UBAP;ubiquitin associated protein	ubiquitin associated protein 1	
UBE2C	NM_007019.3	ubiquitin-conjugating enzyme E2C	ubiquitin conjugating enzyme E2 C	
UBE2D1	NM_003338.4	SFT;stimulator of Fe transport,ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast),ubiquitin-conjugating enzyme E2D 1	ubiquitin conjugating enzyme E2 D1	
UBE2D3	NM_181893.2	ubiquitin-conjugating enzyme E2D 3 (homologous to yeast UBC4/5),ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast),ubiquitin-conjugating enzyme E2D 3	ubiquitin conjugating enzyme E2 D3	
UBE2M	NM_003969.4	ubiquitin-conjugating enzyme E2M (homologous to yeast UBC12),ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast),ubiquitin-conjugating enzyme E2M	ubiquitin conjugating enzyme E2 M	
UBQLN1	NM_053067.2		ubiquilin 1	
USP21	NM_012475.4	USP23;ubiquitin specific protease 21	ubiquitin specific peptidase 21	
USP7	NM_003470.2	HAUSP;ubiquitin specific peptidase 7 (herpes virus-associated)	ubiquitin specific peptidase 7	
UTF1	NM_003577.2		undifferentiated embryonic cell transcription factor 1	
VCP	NM_007126.2	valosin-containing protein	valosin containing protein	
VDAC1	NM_003374.3		voltage dependent anion channel 1	
VDAC2	NM_003375.2		voltage dependent anion channel 2	
VDAC3	NM_001135694.2		voltage dependent anion channel 3	
VEGFA	NM_001025366.1	VEGF;vascular endothelial growth factor	vascular endothelial growth factor A	
VEGFC	NM_005429.2		vascular endothelial growth factor C	
VHL	NM_198156.1	von Hippel-Lindau syndrome,von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase	von Hippel-Lindau tumor suppressor	

VIM	NM_003380.2		vimentin
VPS29	NM_016226.3	vacuolar protein sorting 29 homolog (S. cerevisiae),VPS29, retromer complex component	VPS29 retromer complex component
VTN	NM_000638.3	vitronectin (serum spreading factor, somatomedin B, complement S-protein)	vitronectin
VWF	NM_000552.3	F8VWF	von Willebrand factor
WAS	NM_000377.2	IMD2,THC;thrombocytopenia 1 (X-linked),Wiskott-Aldrich syndrome (eczema-thrombocytopenia),Wiskott-Aldrich syndrome	WASP actin nucleation promoting factor
WDR19	NM_025132.3		WD repeat domain 19
WDR5	NM_017588.2		WD repeat domain 5
WDR61	NM_025234.1		WD repeat domain 61
WDR70	NM_018034.2		WD repeat domain 70
WDTC1	NM_015023.4		WD and tetratricopeptide repeats 1
WNT10B	NM_003394.3	wingless-type MMTV integration site family, member 10B	Wnt family member 10B
WNT11	NM_004626.2	wingless-type MMTV integration site family, member 11	Wnt family member 11
WNT3	NM_030753.4	INT4;wingless-type MMTV integration site family, member 3	Wnt family member 3
WNT3A	NM_033131.2	wingless-type MMTV integration site family, member 3A	Wnt family member 3A
WNT4	NM_030761.3	wingless-type MMTV integration site family, member 4	Wnt family member 4
WNT5A	NM_003392.3	wingless-type MMTV integration site family, member 5A	Wnt family member 5A
WNT6	NM_006522.3	wingless-type MMTV integration site family, member 6	Wnt family member 6
WWTR1	NM_001168278.1		WW domain containing transcription regulator 1
XIST	NR_001564.1	DXS399E;X (inactive)-specific transcript,X (inactive)-specific transcript (non-protein coding),X inactive specific transcript (non-protein coding)	X inactive specific transcript
XPO1	NM_003400.3	exportin 1 (CRM1, yeast, homolog),exportin 1 (CRM1 homolog, yeast)	exportin 1
YAP1	NM_001130145.1	Yes-associated protein 1, 65kDa,Yes associated protein 1	Yes1 associated transcriptional regulator
YBX1	NM_004559.3	NSEP1;nuclease sensitive element binding protein 1	Y-box binding protein 1
YWHA8	NM_139323.3	YWHA8;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptide,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta
YWHA9	NM_006761.4	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon
YWHA3	NM_012479.4	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma
YWHA4	NM_003405.3	YWHA4;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta
YWHA2	NM_006826.3	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide,protein, theta	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
YY1	NM_003403.3		YY1 transcription factor
ZBTB16	NM_006006.4	ZNF145;zinc finger protein 145 (Krueppel-like, expressed in promyelocytic leukemia)	zinc finger and BTB domain containing 16
ZFH3	NM_006885.3	ATBF1,C16orf47;AT-binding transcription factor 1,chromosome 16 open reading frame 47	zinc finger homeobox 3
ZFP3	NM_153018.2	zinc finger protein homologous to Zfp-3 in mouse,zinc finger protein 3 homolog (mouse)	ZFP3 zinc finger protein
ZFP42	NM_174900.3	zinc finger protein 42 homolog (mouse),zinc finger protein 42	ZFP42 zinc finger protein
ZIC2	XM_011521110.1	Zic family member 2 (odd-paired Drosophila homolog),Zic family member 2 (odd-paired homolog, Drosophila)	Zic family member 2
ZIC3	NM_003413.4	HTX1;heterotaxy 1,Zic family member 3 (odd-paired homolog, Drosophila)	Zic family member 3
ZNF304	NM_020657.2		zinc finger protein 304
ZNF622	NM_033414.2		zinc finger protein 622
ZNF750	NM_024702.2		zinc finger protein 750
Internal Reference Genes			
ACTB	NM_001101.2		actin beta
CLTC	NM_004859.2	CLTCL2;clathrin, heavy polypeptide (Hc),clathrin, heavy chain,clathrin, heavy polypeptide-like 2,clathrin, heavy chain (Hc)	clathrin heavy chain
GAPDH	NM_001256799.1	GAPD	glyceraldehyde-3-phosphate dehydrogenase
PGK1	NM_000291.2		phosphoglycerate kinase 1
POLR1B	NM_019014.3	polymerase (RNA) I polypeptide B, 128kDa	RNA polymerase I subunit B
PPIA	NM_021130.3		peptidylprolyl isomerase A
RPL13A	NM_012423.3	TSTA1;tissue specific transplantation antigen 1	ribosomal protein L13a
RPLP0	NM_001002.3	ribosomal protein, large, P0	ribosomal protein lateral stalk subunit P0
TBP	NM_001172085.1	GTF2D1,SCA17	TATA-box binding protein
TFRC	NM_003234.1	transferrin receptor (p90, CD71)	transferrin receptor
TUBB	NM_178014.2	tubulin, beta polypeptide,tubulin, beta,tubulin, beta class I	tubulin beta class I
YWHAZ	NM_001135699.1	YWHAZ;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, delta polypeptide,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
#REF!			#REF!

PPIAL4A (NM_001143883),
PPIAL4C (NM_001135789),
PPIAL4E (NM_001144032),
PPIAL4D (NM_001164261),
PPIAL4G (NM_001123068),
PPIAL4F (NM_001164262)